

Utkarsh Vaishnav

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Summary

Experienced and innovative Blockchain Developer with hands-on expertise in building full-stack decentralized applications (dApps), smart contracts across Ethereum, Solana, Polygon, and Stellar chains, as well as building custom Layer-1 blockchains using Substrate. Skilled in both front-end and back-end development, with a growing specialization in Zero-Knowledge technologies (zkSNARKs, Circom) and next-generation blockchain architecture. Dedicated to pushing the boundaries of decentralized technology and contributing to the ongoing evolution of Web3, especially in the realms of scalability, privacy, and infrastructure. Always learning, always building.

Skills

Languages: Rust, Solidity, JavaScript, TypeScript, C, C++

Blockchain: Anchor (Solana), Foundry (Ethereum), Substrate, Ethers.js, @solana/web3.js, basic knowledge of Circom and zkSNARKs

Web Dev: React, Node.js, Express, Bootstrap, REST APIs, basics of Actix Web and Rocket

Tools: Git, GitHub, VS Code, Remix, Postman, Clap, Solana Playground

Databases/Platforms: SQL, MongoDB, macOS, Ubuntu, Windows, WSL

Experience

Virtual Heights I.T Services Pvt. Ltd

Ahmedabad, India

Full Stack Blockchain Developer

Feb 2023 – Present

- Developed and deployed smart contracts on Ethereum, Solana, Stellar, and Polygon.
- Built and launched EVM-compatible Layer-1 chains using Substrate with PoA consensus.
- Created a CLI tool in Rust for our chain to generate key-pairs, display public keys, recover key-pairs using mnemonics, and other functionalities inspired by solana.
- Implemented ERC20, ERC721, ERC1155 for Ethereum chain, SPL tokens for Solana using Metaplex and candy machine, and tokens in Stellar chain using Soroban smart contracts.
- Developed user interfaces using TypeScript, JavaScript, HTML, CSS, React, Bootstrap, and Material UI.

Texworks Tessile Pvt. Ltd

Ahmedabad, Gujarat

Business Development Intern

Apr 2019 – Oct 2019

- Developed and executed brand communication across various platforms (Digital multimedia, photoshoots).
- Increased social media presence of the company.
- Oversaw office inventory activities, including ordering, stocking, and shipment receiving.
- Prepared necessary documents & paperwork and maintained records of all documents.
- Worked under the CEO of the company.

Azeedo Pvt. Ltd

Ahmedabad, Gujarat

Creative Director

Nov 2019 – Sept 2022

- Managed daily administrative and operational functions of the business.
- Improved the company website and increased social media presence, boosting online engagement by 25%.
- Enhanced customer experience by integrating user feedback into product design and improving support services, increasing customer satisfaction by 20%.
- Developed and implemented plans to prevent areas of inefficiency.
- Designed graphics and layouts for product packaging, catalogs, presentations, banners, logos, and the website.

FanVein

Ahmedabad, Gujarat

Startup Founder

Aug 2020 – May 2022

- FanVein was an NFT-based gaming project and won SSIP grant from GTU.
- Monitored market trends and worked on development & launch of the company website.
- Conceptualized logo, presentations, website, and social media posts using Adobe Illustrator, Photoshop, After Effects, and Canva.
- Formulated the company's vision, goals, objectives, and roadmap.
- Participated in all aspects of developing a business plan, conducting market research (SAM, TAM, & SOM), strategy formation, and presenting the blockchain & NFT market scenario in India & globally.

Education

MBA in Innovation, Entrepreneurship and Venture Development <i>Gujarat Technological University</i> <i>First class with Distinction (CPI: 8.13/10)</i>	2019 – 2021 <i>Ahmedabad, Gujarat</i>
Bachelor of Engineering in Electronics & Communication <i>Gujarat Technological University</i> <i>First class with Distinction (CGPA: 7.67/10)</i>	2016 – 2019 <i>Ahmedabad, Gujarat</i>
Diploma in Engineering in Electronics & Communication <i>Gujarat Technological University</i> <i>First class with Distinction (CGPA: 7.5/10)</i>	2011 – 2014 <i>Ahmedabad, Gujarat</i>

Projects

Multi-Chain CLI Wallet Tool

- Developed a CLI tool in Rust for multi-chain wallet generation using Clap, inspired by Solana-keygen commands. Enabled key generation, public key viewing, and key recovery from mnemonics or passphrases.

EVM based L1 blockchain + Explorer

- Developed an EVM-based Layer 1 blockchain with PoA consensus using Substrate and Rust, supporting smart contract deployment and cryptocurrency, NFT creation.
- Also created a blockchain explorer using React, MySQL, Ethers.js for transaction and contract monitoring along with smart contract verification and bytecode matching.
- The chain currently has more than 19L+ blocks, 69.5K+ users and more than 280K+ transactions count

SPL Token Presale Contract

- Developed a presale smart contract enabling users to purchase tokens using USDT and claim logic after a defined vesting period gets completed.
- Created more than 5 SPL tokens, including metadata updates to ensure accurate token information.
- Added advanced smart contract functionality to handle presale functionality and secure token distribution.

Sol & SPL Token Staking Contract

- Developed a staking smart contract enabling users to stake their solana or spl tokens.
- There can be multiple staking options each with different staking period and reward (in APY).

Wishing well

- Developed a gamified solana smart contract to boost user engagement, allowing users to submit their wishes for 0.5 SOL and distributing pooled rewards hourly to three random winners after retaining a 1 SOL as platform fee.

EduForge - Token Launchpad — Link

- Non technical users can connect their wallet to easily create and manage tokens or NFT's on an EVM based chains

Lottery Web App on Ethereum

- Users interact with a lottery DApp using Metamask, React, and Solidity.

NFT Minting Website (Ethereum)

- Generated SVG-based NFTs viewable on OpenSea + Rarible Testnets.

GIF Sharing Web3 App (Solana) — React + Anchor

- Users can share GIF images to wall-post via connect wallet. Other users can see the wall post and shared images.

Certifications

Certified Blockchain Developer – IBM (Essentials & Foundation V2)

Blockchain Foundations & Use Cases – ConsenSys Academy

Rust Programming for Smart Contracts – Rise In

Blockchain Specialization – University of Buffalo - coursera

The Rust Programming Language – udemy

Polkadot fundamentals and Substrate development – Rise In

Ethereum Blockchain Developer – Udemy

Responsive Web Designing using HTML and CSS – FreeCodeCamp

JavaScript Developer – Udemy

Achievements

Ranked **All India Rank 12** in CET 2019 conducted by AICTE.

Awarded **bright beginner award** within 3 months of joining Virtual Height I.T services Pvt Ltd.

Awarded **SSIP Grant** by GIC & Gujarat Technological University.

Secured **3rd Position** at Vadodara Startup Fest 2020.

Won **1st Prize** for Final Year Project – “Talking Hands.”

Won **1st Prize** (2019) and **Runner-up** (2018) in Badminton at College Sports Festival.

Blockchain Events and Workshops

Participated in **EDU Chain Hackathon - 2024**.

Participated in various **ethereum hackathons**.

Attended **Blockchaining the World Workshop** organized by IIT Roorkee and CoinDCX.

Completed **Blockchain Developer Bootcamp** by ConsenSys Academy (Online).

Leadership and Volunteering

Core Committee Member – Technosparx College Tech-Fest.

Volunteer – Sports and Tech Festivals, AIT College.